

Sybil Prince Nelson

sybilnelson@hotmail.com

Education

- August 2010*
to
August 2016 Medical University of South Carolina
Charleston, SC
PhD in Biostatistics
- Dissertation Thesis: Classifying and Predicting Disease Outcome from Binary and Continuous Variables and Their Interactions
- January 2006*
to
May 2010 College of Charleston
Charleston, SC
Master of Science in Mathematics
- Master's Thesis: Dynamics of Nearly Circular Vortex Filaments
- September 1997*
to
June 2001 Washington and Lee University
Lexington, VA
Bachelor of Arts in Mathematics and Music
- Dean's List

Research Interests

- Random Forests
- Methodological issues in Logic Regression and Classification and Regression Tree analysis
- Statistical Genetics

Work History

- August 2016*
to
Present Mathematics Professor
The Citadel
Charleston, SC
- August 2004*
to
July 2010 Mathematics Teacher
Ashley Hall School
Charleston, SC
- Taught Algebra 1, 2, 3, Trigonometry, Precalculus, AP Statistics
 - Taught dance: ballet, tap, jazz, hip hop
 - Directed the math team
- August 2001*
to
July 2004 Mathematics Teacher
Georgetown Day School
Washington, DC

- Taught Algebra 2, Precalculus, AP Calculus
- Directed the dance club
- Directed the math team

Presentations/Posters

- Prince Nelson, S. *Dynamics of Nearly Circular Vortex Filaments*. Poster presented at Cha-Cha Days Statistical Meeting and College of Charleston Graduate Student Research Day. First place prize at CofC.
- Prince Nelson, S. *Health Disparities in the development of Lymphedema in Breast Cancer Survivors*. Poster presented at MUSC Student Research Day. (First Place Winner).
- Prince Nelson, S. *Preliminary Steps for Developing a Secondary Breast Cancer Lymphedema Assessment Tool*. Poster presented at Hollings Cancer Retreat.
- Prince Nelson, S. *Reduced Actin Polymerization in Lung of IQGAP-1 in Knockout Mice Implication for Scleroderma Pulmonary Fibrosis*. Poster presented at College of Medicine Research Day.
- Prince Nelson, S. *Preliminary Steps for Developing A New Statistical Algorithm for Classifying and Predicting Disease Outcome from Binary and Continuous Predictors and their Interactions*. Poster presented at MUSC Student Research Day.
- Prince Nelson, S. *A New Statistical Algorithm for Classifying and Predicting Disease Outcome from Binary and Continuous Predictors and their Interactions*. Presentation given at the SC-ASA meeting.
- Prince Nelson, S. *A New Statistical Algorithm for Classifying and Predicting Disease Outcome from Binary and Continuous Predictors and their Interactions*. Invited speaker at University of North Carolina.
- Prince Nelson, S. *C.Logic: An Extension of Logic Regression*. Invited speaker at Proctor and Gamble, Cincinnati, OH
- Prince Nelson, S. *C.Logic: A Method for Predicting Disease Outcome*. Oral presentation at MUSC Student Research Day 2014 (Second Place Winner).
- Prince Nelson, S. Genetic and Environmental factors leading to Lupus in the SC Gullah Population. Invited speaker at MUSC's EE Just Symposium
- Prince Nelson, S. A Novel Statistical Method for Identifying Genetic and Environmental Interactions that Lead to Disease. Poster presentation Eastern North Atlantic Region of the International Biometric Society conference, Baltimore, MD
- Prince Nelson, S. A Novel Statistical Method for Identifying Genetic and Environmental Factors Leading to Health Disparities. Invited poster James E. Clyburn lecture. Columbia, SC
- Prince Nelson, S. A Novel Statistical Method for Identifying Genetic and Environmental Factors Leading to Health Disparities. Invited speaker Proctor and Gamble, Cincinnati, Ohio
- Prince Nelson, S. *C.Logic: An Algorithm to Classify Dichotomous Disease Outcomes Using Interactions Between Dichotomous and Continuous Predictors*. JSM 2016 Chicago, IL

Other Experience

- Panelist in mentoring presentations to encourage undergraduate minorities to pursue graduate degrees (at least twice per year each year at MUSC)
- MUSC College of Graduate Studies Admissions Committee
- Selected to give presentation to MUSC board of trustees
- Homework Helper at Carolina Youth Development Center (CYDC)
- Invited to present research at the Proctor and Gamble company in Cincinnati, Ohio.

Skills

- Microsoft Word and Excel
- R computer language for statistics
- SAS
- PLINK
- BEAGLE
- Adobe Photoshop
- LaTeX and MikTeX
- Proficient in Spanish and Portuguese
- Author (as Sybil Nelson and Leslie DuBois)

Publications

- Yuen, H., Prince Nelson, S. *Test-Retest Reliability of Oral Health Impact Profile (OHIP-49) in Adults with Systemic Sclerosis*. Paper published in Special Care in Dentistry. May 2013
- White-Gilbertson, S., Prince Nelson, S. *et.al Analysis of the National Cancer Data Base to Describe Treatment Trends in Stage IV Oral Cavity and Pharyngeal Cancers in the United States, 1998-2012*. Journal of Registry Management (JRM), Winter 2015 Issue
- Prince Nelson S, Ramakrishnan, R., Nietert, P., Kamen, D., Ramos, P., Wolf, B. *An evaluation of common methods for dichotomization of continuous variables to discriminate disease status*. Approved for publication in Communication in Statistics Theory and Methods

References

- References available upon request